1/1

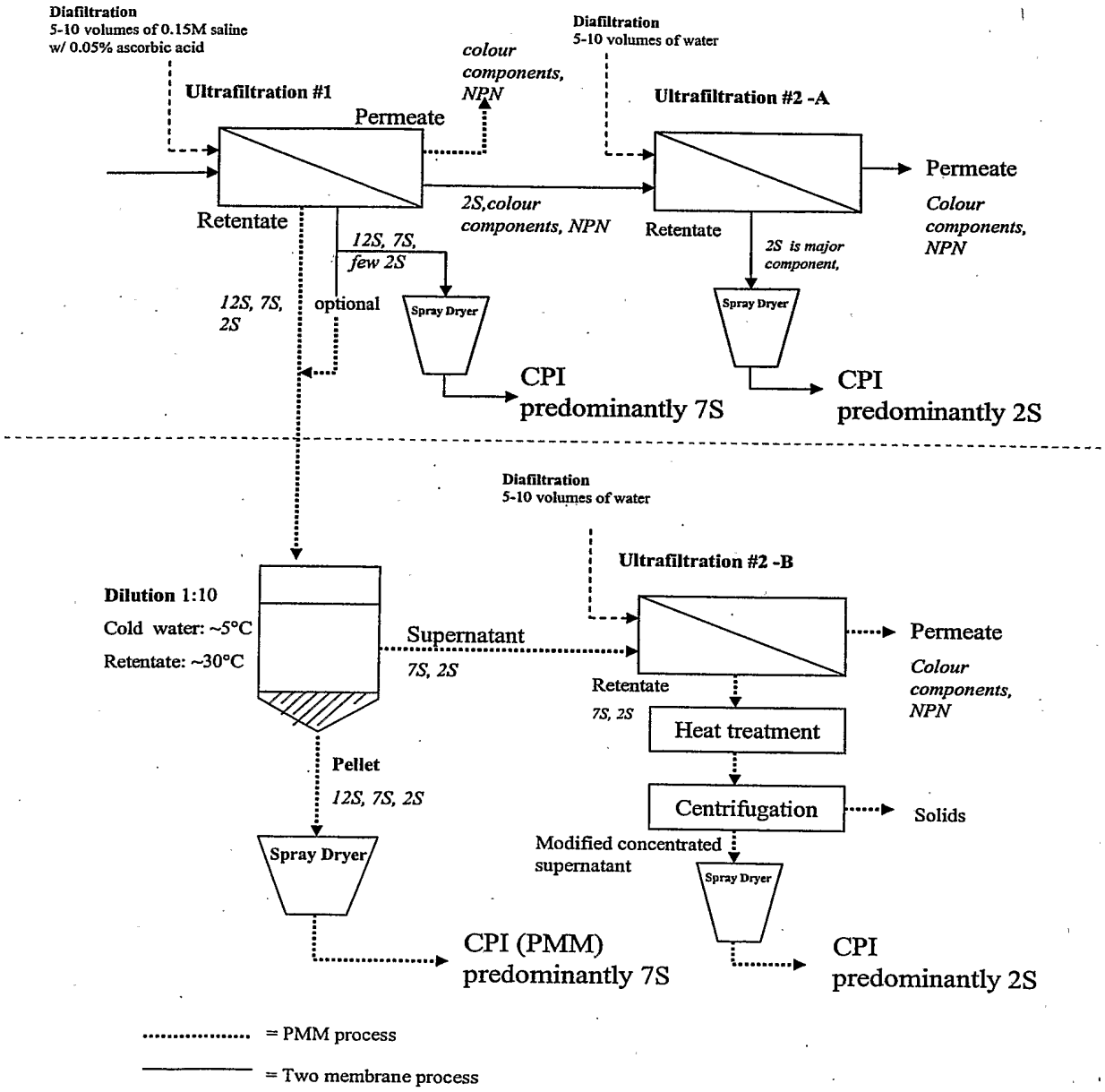
Diafiltration
5-10 volumes of 0.15M saline
w/ 0.05% ascorbic acid
Ultrafiltration #1
Permeate
colour components, NPN
Retentate
12S, 7S, few 2S
12S, 7S, 2S
optional
Spray Dryer
CPI predominantly 7S
Diafiltration
5-10 volumes of water
Ultrafiltration #2 -A
2S,colour components, NPN
Retentate
2S is major component,
Permeate
Colour components, NPN
Spray Dryer
CPI predominantly 2S
Diafiltration
5-10 volumes of water
Ultrafiltration #2 -B
Dilution 1:10
Cold water: ~5°C
Retentate: ~30°C
Supernatant
7S, 2S
Permeate
Colour components, NPN
Retentate
7S, 2S
Heat treatment
Centrifugation
Solids
Modified concentrated supernatant
Pellet
12S, 7S, 2S
Spray Dryer
Spray Dryer
CPI (PMM) predominantly 7S
CPI predominantly 2S
..... = PMM process
——— = Two membrane process

Figure 1